

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: October 11, 2002, 08:19:20 : Search time 27 Seconds
(without alignments)
832.939 Million cell updates/sec

Title: US-09-818-954A-1
Perfect score: 722
Sequence: 1 MKLAFLEFLGPMALLLAGYGV.....VAIRDCGACSTATTECENT 130

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 562222 seqs, 172994929 residues

Total number of hits satisfying chosen parameters: 562222

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

SPREMBL_19:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_oranella:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriaph:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	211	29.2	128	13	091997 acipenser b
2	208	28.8	140	13	098ty3 mylopharyng
3	205.5	28.5	123	13	0902k1 rana ridibu
4	204.5	28.3	142	13	090G92 oncorhynch
5	201.5	27.9	137	13	090WC1 xenopus lae
6	201	27.8	140	13	090G80 ictalurus p
7	195	27.0	145	13	090W55 parasilichth
8	194.5	26.9	146	13	090W19 hippoglossu
9	192.5	26.7	131	13	090W63 scyllorhinu
10	191.5	26.5	145	13	090WD2 parasilichth
11	189	26.2	137	13	091999 acipenser b
12	189	26.0	146	13	090EH0 pagrus majo
13	188	26.0	138	13	090W69 rana ridibu
14	186.5	25.8	88	13	090W07 salmo salar
15	180	24.9	135	11	0924A7 cavia porce
16	180	24.9	141	11	0924A8 cavia porce

17	179	24.8	121	13	090W64 scyllorhinu
18	178	24.7	139	11	062778 rattus norv
19	175	24.2	127	11	0924A6 cavia porce
20	174	24.1	165	6	09BEH2 macaca fasc
21	173.5	24.0	142	6	09BD19 panthera li
22	168.5	23.3	132	13	090D81 ictalurus p
23	167.5	23.2	141	6	095J85 monodelphis
24	165	22.9	129	6	095J82 ceratotheri
25	164	22.7	165	6	09BEH1 macaca fasc
26	161	22.3	129	6	09BD10 panthera li
27	160	22.2	150	13	013051 cyprinus ca
28	159	22.0	147	13	013052 ctenopharyn
29	159	22.0	150	13	09PW21 aristichth
30	158	21.9	125	13	091992 conger cong
31	157	21.7	109	13	091998 acipenser b
32	154.5	21.4	138	4	016183 homo sapien
33	154	21.3	89	6	046618 equus zebra
34	154	21.3	82	6	046619 equus hemio
35	149.5	20.7	82	6	046622 ceratotheri
36	149	20.6	123	13	09W608 salmo salar
37	148	20.5	130	13	098TY2 mylopharyng
38	145	20.1	165	6	09GL37 macaca mulla
39	145	20.1	165	11	099P48 mus musculu
40	144	19.9	138	6	095J88 monodelphis
41	144	19.9	149	13	09PVW9 carassius a
42	144	19.9	150	13	013049 carassius a
43	143.5	19.9	137	13	09DC93 oncorhynch
44	137.5	19.0	80	11	063013 rattus norv
45	134.5	18.6	130	13	09YTB3 carassius a

ALIGNMENTS

RESULT 1
ID 091997 PRELIMINARY; PRT: 128 AA.
AC 091997;
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE FOLLICLE-STIMULATING HORMONE PRECURSOR.
GN FSH.
OS Acipenser baeri (Siberian sturgeon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;
OC Acipenserinae; Acipenser.
OX NCBI_TaxID=27689;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=PTUITARY;
RX MEDLINE=20318422; PubMed=10859263;
RA Querat B., Sellouk A., Salmon C.;
RT "Phylogenetic analysis of the vertebrate glycoprotein hormone family including new sequences of sturgeon (Acipenser baeri) subunits of the two gonadotropins and the thyroid stimulating hormone."
RT BIOL. Reprod. 63:222-228(2000).
RL EMBL; AJ251658; CAB93504.1; -.
DR HSSP; P01233; 1XUL.
DR InterPro; IPR000359; Cys_knot.
DR InterPro; IPR001545; Glyco_hormone_beta.
DR Pfam; PF00007; Cys_knot; 1.
DR SMART; SM00068; GHR; 1.
DR PROSITE; PS00689; GLYCO_HORMONE_BETA_2; 1.
KW Signal.
FT SIGNAL 1 20 POTENTIAL.
FT CHAIN 21 128 FOLLICLE-STIMULATING HORMONE.
SO SEQUENCE 128 AA; 13785 MW; 712EF76F0757D70 CRC64;

Query Match 29.2%; Score 211; DB 13; Length 128;
Best Local Similarity 42.7%; Pred. No. 1.7e-16;
Matches 41; Conservative 15; Mismatches 38; Indels 2; Gaps 2;

Qy	36	CAVREFTFLAKRGGRG- <u>LRITTDACWGCSEWMEPIERPR</u> EIANHNRYGATYNEKOVY	94
	:	:	:
	:	:	:
Db	22	CALENITITIGIEDGCGNCVSVNTSCAGRCFLT-QADVYKSSISLTQVLCSTFKELISUYIV	80
Qy	95	KLPNCAGVDPRPYTPVAALIRCCGCGACSTATTECEIT	130
Db	81	QLPNCPEHVDPRPYTPVALSCGCGACADYDTTCGLT	116

RESULT 2	
Q98TY3	
ID Q98TY3	PRELIMINARY;
AC Q98TY3	PRT; 140 AA

DT 01-JUN-2001 (TREMBLrel. 17, Created)
 DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE LOREINIZING HORMONE BETA SUBUNIT.
 OS Mylopharyngodon plicatus.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Ostariophysi;
 OC Cypriniformes; Cyprinidae; Mylopharyngodon.
 OX NCBI_TaxID=75356;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Beyer-Eizenberg D., Rosenfeld H., Zmora N., Yaron Z., Elizur A.;
 RT "Isolation and characterization of the black carp LH beta subunit.",
 RL Submitted (NOV-2000) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AF319960; AAK07414.1; -.
 DR HSSP; P01233; 1XUL.
 DR InterPro; IPR000359; Cys_knot.
 DR InterPro; IPR001545; Glyco_hormone_beta.
 DR Pfam; PF00007; Cys_knot.1.
 DR SMART; SM00068; GHb; 1.
 DR PROSITE; PS00261; GLYCO_HORMONE_BETA.1; UNKNOWN.1.
 DR PROSITE; PS00689; GLYCO_HORMONE_BETA.2; 1.
 SQ SEQUENCE 140 AA; 15820 MW; 8f21273cf35d5d54010 CRC64;

[illegible]

RESULT 3			
ID	090ZK1	PRELIMINARY;	PRT; 123 AA.
AC	090ZK1;		
DT	01-DEC-2001 (TREMBLrel, 19, Created)		
DT	01-DEC-2001 (TREMBLrel, 19, Last sequence update)		
DT	01-DEC-2001 (TREMBLrel, 19, Last annotation update)		
DE	FOLLICLE STIMULATING HORMONE BETA SUBUNIT PRECURSOR (FRAGMENT).		
OS	Rana ridibunda (laughing frog) (Marsh frog).		
OC	Eumyriota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
OC	Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana		
OX	NCBI_TaxID=8406;		
RN	[1]		
RE	SEQUENCE FROM N.A.		
RP	TISSUE=PITUITARY;		
RC			
RA	Querat B.;		
RT	"Evolution of glycoprotein hormones in gnathostomes.";		
RL	Submitted (May-2001) to the EMBL/GenBank/DBJ databases.		
RZ	EMBL: AJ311356; CAC39253.1; -.		
KW	Signal.		
FT	NON_TER	1	1
FT	SIGNAL	<1	16
			POTENTIAL.

FT	CHAIN	17	123	FOLICLE STIMULATING HORMONE BETA
FT				SUBUNIT.
SQ	SEQUENCE	123 AA;	13678 MW;	9:6CC3E72EECCA85 CRC64;

Query Match	28.5%	Score 205.5	DB 13	Length 123
Best Local Similarity	40.5%	Prec. No. 6.8e-16		
Matches 45	Conservative 15	Mismatches 44	Indels 7	Gaps 4

QY 19 YGCVLGSSSNLTETFGCAVRETFELAKKPPGRLGITTDGCM--GAGCEWEKPILEPPY 76
Db 3 YGVL--FNNVLSTACELSNITIVLELEEC--GACISVANATWCSGYCTIMDNLMWYPKR 58
QY 77 IEAHNRKSTNETKQYVTLPLPCAGCPDPEYTVPAALPCOGAGSTATTEG 127
Db 59 SE-KQGVSTTEYTVYEVAKIPGADNWNFTTPYPAVDHCAGGRONSETTIC 108

RESULT 4	
Q9DG92	
ID	Q9DG92
	PRELIMINARY;
	PRT; 142 AA

DT 01-MAR-2001 (TEMBrel, 16, Create3)
DT 01-MAR-2001 (TEMBrel, 16, last sequence update)
DE 01-DEC-2001 (TEMBrel, 19, last annotation update)
DE LUTEINIZING HORMONE BETA SUBUNIT.
GN LH BETA.
OS Oncorhynchus mykiss (Rainbow trout, (*Salmo gairdneri*)).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopteleostei; Teleostei; Euteleostei;
OC Proteoanchopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxId=8022;
RN [1]
RP SEQUENCE FROM N.A.
RA Morita T., Yoshizaki G., Takeuchi T.;
RT "Rainbow trout luteinizing hormone beta subunit mRNA."
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB050836; BAB1687.1; -
DR HSSP; P01233; 1XUL.
DR InterPro; IPR000359; Cys_knot.
DR InterPro; IPR001545; Glyco_hormone_beta.
DR Pfam; PF00007; Cys_knot; 1.
DR SMART; SM00068; GHb; 1.
DR PROSITE; PS00261; GLYCO_HORMONE_BETA_1; UNKNOWN_1.
SQ SEQUENCE 142 AA; 15824 MW; 7C399-4BF1FE53A CRC64;

Query Match	28.3%	Score 204.5	DB 13	Length 142
Best Local Similarity	37.1%	Pred. No. 1e-15		
Matches 46	Conservative 20	Mismatches 49	Indels 9	Gaps 5

Oy		6	LFLMALLLAGGCV-LGASSGNLETFPG(AVREPTPLAKKRC-RGRITTDACMR	63
Dd		4	LHVGLISLTL-----CLILEVEGSL--MOPCPINOTVSVEREGCPTLCVIDIPTCSGH	57
Oy		64	CETMEKPILDEPTYEAHHRYCTYNETKOVTKLPNCAPGVDPFTYVAALRCDGASTA	123
Dd		58	CVT-KEPFEKSPSTVIQHVCTVDVRIETIRLDPCPEWMDPHVTYFVALSCDCLCMD	116
Oy		124	TTEEC	127
Dd		117	TSDC	120

RESULT 5	
Q90WC1	
ID	Q90WC1
PRELIMINARY;	
PRT;	137 AA

DT 01-DEC-2001 (TREMblrel. 19, Created)
DT 01-DEC-2001 (TREMblrel. 19, last sequence update)
DT 01-DEC-2001 (TREMblrel. 19, last annotation update)
DE LUTROPIN BETA SUBUNIT.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipiloidea; Pipidae;

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Query Match      26.9%  Score 194.5; DB 13; Length 146;
Best Local Similarity 38.0%  Pred No. 1.5e-14;
Matches 35; Conservative 19; Mismatches 33; Indels 5; Gaps 3.

QY 38 VAEFTFLAKK--PGCGRLITTDACGRCSTWEKRLLEPPYIEAHNRVCSTNETKQVTK 95
    ::: | | : | : | : | : | : | : | : | : | : | : | : | : | : | :

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Db 40 IKOMVLEKEGCPKCH--TVETTTCSGHONT-KDPVIRKIPFLNVQHVCTYOELYYKTFE 96
Qy 96 LPNCAGVDPEFTYPAVIRCDGACSTATTEC 127
Db 97 LPDCPPGVDPVTIVSPVAVSCYCGRCALNTSDC 128

RESULT 9
090M63 PRELIMINARY: PRT: 131 AA.
AC 090M63.
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
LN LUTEINIZING HORMONE BETA SUBUNIT PRECURSOR.
GN LH BETA.
OS Scyliorhinus canicula (Spotted dogfish) (Spotted catshark).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
OC Elasmobranchii; Galeomorphii; Galeoidea; Carcharhiniformes;
OC Scyliorhinidae; Scyliorhinus.
OX NCBI_TaxID=7830;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=PIUTITARY;
RA Querat B.;
RT "Duality of gonadotropins in gnathostomes.";
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AJ310345; CAC43236.1; -.
KW SIGNAL.
FT CHAIN 20 131 POTENTIAL.
SQ SEQUENCE 131 AA: 14656 MW; D3F8592C62A6AF77 CRC64;

Query Match 26.7%; Score 192.5; DB 13; Length 131;
Best Local Similarity 37.1%; Pred. No. 2.2e-14;
Matches 43; Conservative 14; Mismatches 50; Indels 9; Gaps 4;

Qy 13 LLLLAGYGVLAGSSGNLTFFVGAVERFTFLAKKPGCR-GRITTTDACWGRCETWEKPI 71
Db 7 LLLLA--TCFYSVQGRHL-----CHPTNVTISAKEKDECPICVLTLSICGVCPTKES-V 58

Qy 72 LEPPPIEAHHRCCTYNETKQVTKLPNCAPGVDPFTYTYVAIRCDGACSTATTEC 127
Db 59 YKSPLLSYQHVCTYKREYETIRLPGCPTGVDSITYEVAVSCCENLCRMDYTDG 114

RESULT 10
090MD2 PRELIMINARY: PRT: 145 AA.
AC 090MD2.
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
LN GONADOTROPIN II BETA SUBUNIT.
GN Parachanna olivacea (Flounder).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes;
OC Pleuronectidae; Parachanna; Parachanna.
OX NCBI_TaxID=8255;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=PIUTITARY;
RA Lee J.H., Kim Y.T.;
RT "Molecular cloning and sequencing of flounder (Parachanna olivacea)
gonadotropin-I and -II subunits";
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF288694; AAK58602.1; -.
SQ SEQUENCE 145 AA: 16339 MW; 919B3A570467F8CA CRC64;

Query Match 26.5%; Score 191.5; DB 13; Length 145;
Best Local Similarity 38.0%; Pred. No. 3.2e-14;
Matches 35; Conservative 19; Mismatches 33; Indels 5; Gaps 3;
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Qy 38 VREFTFLAKK--PGCRGLRITTTDACWGRCETWEKPILEPPPIEAHHRCCTYNETKQVTK 95
Db 39 IKOMVLEKEGCPKCH--TVETTTCSGHONT-KDPVIRKIPFLNVQHVCTYOELYYKTFE 95

Qy 96 LPNCAGVDPEFTYPAVIRCDGACSTATTEC 127
Db 96 LPDCPPGVDPVTIVSPVAVSCYCGRCALNTSDC 127

RESULT 11
091999 PRELIMINARY: PRT: 137 AA.
AC 091999.
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DE 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
LN LUTEINIZING HORMONE PRECURSOR.
GN LH.
OS Acipenser baerii (Siberian sturgeon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;
OC Acipenserinae; Acipenser.
OX NCBI_TaxID=27689;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=PIUTITARY;
RX MEDLINE=20318422; PubMed=10859263;
RA Querat B., Sellouk A., Salmon C.;
RT "Phylogenetic analysis of the vertebrate glycoprotein hormone family
including new sequences of sturgeon (Acipenser baerii) subunits of the
two gonadotropins and the thyroid stimulating hormone.";
RL Biol. Reprod. 63:222-228(2000).
DR EMBL: AJ251656; CAB93502.1; -.
DR HSSP: P01233; 1XUL.
DR InterPro: IPR000359; Cys_knot.
DR InterPro: IPR001545; Glyco_hormone3_beta.
DR Pfam: PF00007; Cys_knot; 1.
DR SMART: SM00068; GHB; 1.
FT SIGNAL.
FT CHAIN 23 137 POTENTIAL.
SQ SEQUENCE 137 AA: 14757 MW; 37CFB0BB2955607 CRC64;

Query Match 26.2%; Score 189; DB 13; Length 137;
Best Local Similarity 37.3%; Pred. No. 5.9e-14;
Matches 44; Conservative 18; Mismatches 50; Indels 6; Gaps 4;

Qy 11 MALLLAGYGVLAGSSGNLTFFVGAVERFTFLAKKPGCR-GRITTTDACWGRCETWEK 69
Db 5 VSLLLLFSSALVLSRSS-SLRLT--CEPVNFTISAKEKDECPICVLTLSICGSCPT-KD 59

Qy 70 LEPPPIEAHHRCCTYNETKQVTKLPNCAPGVDPFTYTYVAIRCDGACSTATTEC 127
Db 60 PVFKSLSTVQHVCTYKREYETIRLPGCPTGVDSITYEVAVSCCENLCRMDYTDG 117

RESULT 12
09DEH0 PRELIMINARY: PRT: 146 AA.
AC 09DEH0.
DT 01-MAR-2001 (TREMBLrel. 16, Created)
DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DE 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
LN GONADOTROPIN II BETA SUBUNIT PRECURSOR.
GN Pagrus major (Red sea bream) (Chrysopomys major).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidae;
OC Sparidae; Pagrus.
OX NCBI_TaxID=143350;
RN [1]
RP SEQUENCE FROM N.A.
```

RA MEDLINE=20318432; PubMed=10859273;
RA Gen K., Okuzawa K., Senthilkumaran B., Tanaka H., Moriyam S.,
RA Kagawa H.;
RT "Unique expression of gonadotropin-I and -II subunit genes in male and
RT female red seabream (Pagrus major) during sexual maturation.";
RL Biol. Reprod. 63:308-319(2000).
DR HSSP; A8028213; BAB18564.1; -.
DR HSSP; P01233; 1XUL.
DR InterPro: IPR000359; Cys_knot.
DR InterPro: IPR001545; Glyco_hormone_beta.
DR Pfam: PF00007; Cys_knot; 1.
DR SMART; SM00068; GHB; 1.
DR PROSITE; PS00261; GLYCO_HORMONE_BETA_1; UNKNOWN_1.
KW Signal.
FT SIGNAL 1 14 POTENTIAL.
SQ SEQUENCE 146 AA; 16320 MW; 1EBF429CFE5BE82 CRC64;

Query Match 26.2%; Score 189; DB 13; Length 146;
Best Local Similarity 39.8%; Pred. No. 6.3e-14;
Matches 37; Conservative 15; Mismatches 37; Indels 4; Gaps 3;

QY 36 CAVEFFFLAKKPGCRGLR-ITTDACWGRCETWEKPLIEPPYIAHHRVCTYNETKQTV 94
DB 39 COLINQTVLSLEKCGPCHPVEFTICSGHCIT-KDPVAKTRVYVQH--VCTYRDLHYKTF 95
QY 95 KLPCAGVDPFYTPYPAIRDCGACGATTEC 127
DB 96 ELPCPGVDPFYTPYPAVSGHGLCAMDTSDC 128

RESULT 13
Q90MG9
ID 090MG9 PRELIMINARY; PRT; 138 AA.
AC Q90MG9;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE LUTEINIZING HORMONE BETA SUBUNIT PRECURSOR.
OS Rana ridibunda (Laughing frog) (Marsh frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Rana;
OX NCBI_Taxid=8406;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=PTUITARY;
RA Querat B.;
RT "Evolution of glycoprotein hormones in gnathostomes.";
RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ311355; CAC39252.1; -.
KW Signal.
FT SIGNAL 1 26 POTENTIAL.
FT CHAIN 27 138 LUTEINIZING HORMONE BETA SUBUNIT.
SQ SEQUENCE 138 AA; 15701 MW; 9C1EB077B34B6CF CRC64;

Query Match 26.0%; Score 188; DB 13; Length 138;
Best Local Similarity 35.3%; Pred. No. 7.8e-13;
Matches 41; Conservative 16; Mismatches 49; Indels 10; Gaps 3;

QY 13 LLLAGYCVLGAASSGNLRFVGCARVEFFFLAKPGCR-GLRITTDACWGRCETWEKPI 71
DB 15 LLRAHLSAVGGRHL-----CHLANATISAEKDHCPVCVFETTTICSGYQTLDPV 65
QY 72 LEPPYIAHHRVCTYNETKQTVKLPNCAGVDPFYTPYPAIRDCGACGATTEC 127
DB 66 HKTALFFPKOKICTYKEIRYDTIKLPDLPGTDFPFYPAALSCYCDCKMDYSDC 121

RESULT 14
Q9M6Q7
ID Q9M6Q7 PRELIMINARY; PRT; 88 AA.
AC Q9M6Q7;
DT 01-NOV-1999 (TREMBlrel. 12, Created)
DT 01-NOV-1999 (TREMBlrel. 12, Last sequence update)

DT 01-JUN-2001 (TREMBlrel. 17, Last annotation update)
DE GONADOTROPIN II BETA SUBUNIT (FRAGMENT).
OS Salmo salar (Atlantic salmon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Salmo.
OX NCBI_Taxid=8030;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=PTUITARY;
RA Yadelie F., Goksoyr A., Male R.;
RT "Modulation of pituitary gonadotropin mRNA levels in juvenile Atlantic
RT salmon by 4-nonylphenol.";
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF146151; AAD34593.1; -.
DR HSSP; P01233; 1XUL.
DR InterPro: IPR000359; Cys_knot.
DR InterPro: IPR002400; GF_cysknot.
DR InterPro: IPR001545; Glyco_hormone_beta.
DR Pfam: PF00007; Cys_knot; 1.
DR PRINTS; PR00438; GFCYSKNOT.
DR SMART; SM00068; GHB; 1.
DR PROSITE; PS00261; GLYCO_HORMONE_BETA_1; UNKNOWN_1.
DR PROSITE; PS00689; GLYCO_HORMONE_BETA_2; 1.
FT NON_TER 1 1
FT NON_TER 88 88
SQ SEQUENCE 88 AA; 9975 MW; A6E9CB651E165536 CRC64;

Query Match 25.8%; Score 186.5; DB 13; Length 88;
Best Local Similarity 41.2%; Pred. No. 7.2e-14;
Matches 33; Conservative 15; Mismatches 29; Indels 3; Gaps 2;

QY 48 PCGRGLRITTDACWGRCETWEKPLIEPPYIAHHRVCTYNETKQTVKLPNCAGVDPFY 107
DB 2 PTC--LVLTPTICSGCYT-KEPVKSPSTVYQHVCYRDVRYETIRLPDPPVDDHV 58
QY 108 TYPVAIRDCGACGATTEC 127
DB 59 TYPVALSCDCSLCMMDTSDC 78

RESULT 15
Q924A7
ID Q924A7 PRELIMINARY; PRT; 135 AA.
AC Q924A7;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE LUTEINIZING HORMONE BETA SUBUNIT PRECURSOR (FRAGMENT).
OS Cavia porcellus (Guinea pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Hystriognathi; Cavidae; Cavia.
OX NCBI_Taxid=10141;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21255925; PubMed=11357063;
RA Sherman G.B., Hellman D.F., Hoss A.J., Bunick D., Lund L.A.;
RT "Messenger RNAs encoding the beta subunits of guinea pig (Cavia
RT porcellus) luteinizing hormone (glnh) and putative chorionic
RT gonadotropin (gpcg) are transcribed from a single-copy glnh/Cgbeta
RT gene.";
RL J. Mol. Endocrinol. 26:267-280(2001).
DR EMBL; AF356595; AAK64306.1; -.
KW Signal.
FT NON_TER 1 1
FT SIGNAL <1 14 POTENTIAL.
FT CHAIN 15 135 LUTEINIZING HORMONE BETA SUBUNIT.
SQ SEQUENCE 135 AA; 14432 MW; A44C63DBDC5607AE CRC64;

Query Match 24.9%; Score 180; DB 11; Length 135;
Best Local Similarity 35.4%; Pred. No. 6.3e-13;
Matches 46; Conservative 19; Mismatches 41; Indels 24; Gaps 7;

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OY 6 LFIQPMALLLAGYGCVLGASSGNLRTEVGCAREFTFLAKKPGCR-GLRITTDACWGRC 64
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 LILG---LILSTSG--VWASRGPLRPY--CRPINATLAEKEACPCICVFTTTSICAGYC 52
OY 65 -----ETWEKPILEPPYIEAHHRVCYNEFKOYTVKLPNCAGVDPPEYTPVAIRCDG 117
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 53 PSMRVLTTARRPV--POL-----VCTYDELRFASIRLPGCPGVDPVPSFPVALSCHC 104
OY 118 GACSTATTEC 127
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 105 GTCRLSNSDC 114
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Search completed: October 11, 2002, 08:23:47
Job time : 28 secs